

Title (en)

Polarization-independent optical switches/modulators.

Title (de)

Polarisationsunabhängige optische Schalter/Modulatoren.

Title (fr)

Commutateurs/modulateurs optiques indépendant de la polarisation.

Publication

EP 0480364 A2 19920415 (EN)

Application

EP 91117123 A 19911008

Priority

JP 26832390 A 19901008

Abstract (en)

A polarization-independent optical switch/modulator includes a pair of waveguides (12, 14) having mutually parallel portions spaced apart a distance allowing directional coupling therebetween. A set of first electrodes (16, 18, 20) of an embedded type are disposed in the waveguide substrate in the vicinity of both sides of the optical waveguides for controlling polarized light having the electric field component in the direction parallel to the surface of the waveguide substrate (11). Further, a set of second electrodes (22, 24) are disposed on the optical waveguides for controlling polarized light having the electric field component perpendicular to the surface of the waveguide substrate (11). The lengths of the first and second electrodes are set to have a predetermined ratio therebetween and the first and second electrodes are connected to a common power source (26). <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

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